Title (en)
AUTOMATED COMPUTER-AIDED DESIGN IN PREPARING CUT THERMAL ADHESIVE FILMS

Title (de)
AUTOMATISIERTER RECHNERGESTÜTZTER ENTWURF BEI DER HERSTELLUNG VON GESCHNITTENEN THERMISCHEN KLEBEFOLIEN

Title (fr)
CONCEPTION ASSISTÉE PAR ORDINATEUR AUTOMATISÉE LORS DE LA PRÉPARATION DE FILMS ADHÉSIFS THERMIQUES DÉCOUPÉS

Publication
**EP 3271899 B1 20200226 (EN)**

Application
**EP 16765676 A 20160316**

Priority
• US 201562133946 P 20150316
• US 2016022683 W 20160316

Abstract (en)
[origin: WO2016149396A1] Method of manufacturing a substrate with a cut thermal film comprises obtaining an input digital image of a design to be transferred to the substrate; storing the input image in memory; rendering design elements of the design as a single output image; based upon a bleed size value, a maximum number of negative areas, a maximum number of positive areas, and attribute values: resizing the image to include a border for bleed; filling transparent areas of the image with the substrate attribute values; creating a cutting path; creating a mask image; inverting the mask image; modifying the mask image to adjust fill areas around details, to limit negative areas to be less than the maximum number of negative areas, and to limit positive areas to be less than the maximum number of positive areas; creating cutting path data in memory as a vector path outlining the mask image.

IPC 8 full level
**G06T 11/00** (2006.01); **A41D 27/00** (2006.01); **G05B 19/4097** (2006.01); **G09F 3/04** (2006.01)

CPC (source: CN EP US)
**B26D 3/085** (2013.01 - CN EP US); **B26D 5/00** (2013.01 - CN EP US); **B26F 1/00** (2013.01 - CN EP US); **B26F 1/3813** (2013.01 - CN EP US); **B44C 1/162** (2013.01 - CN EP US); **B44C 1/165** (2013.01 - CN); **G05B 19/4097** (2013.01 - CN EP US); Y02P 90/02 (2015.11 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
**WO 2016149396 A1 20160922**; CA 2979986 A1 20160922; CN 107533769 A 20180102; CN 107533769 B 20210402; CN 113050545 A 20210629; CN 113050545 B 20230815; EP 3271899 A1 20180124; EP 3271899 A4 20181121; EP 3271899 B1 20200226; US 10137590 B2 20181127; US 10507589 B2 20191217; US 11020869 B2 20210601; US 11565437 B2 20230131; US 11897156 B2 20240213; US 12023822 B2 20240702; US 2016271924 A1 20160922; US 2019091885 A1 20190328; US 2020147819 A1 20200514; US 2021245384 A1 20210812; US 2023043680 A1 20230209; US 2023045371 A1 20230209

DOCDB simple family (application)
**US 2016022683 W 20160316**; CA 2979986 A 20160316; CN 201680027505 A 20160316; CN 202110269848 A 20160316; EP 16765676 A 20160316; US 201615072169 A 20160316; US 201816201803 A 20181127; US 201916707159 A 20191209; US 202117244068 A 20210429; US 202217968458 A 20221018; US 202217968462 A 20221018